

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): Within a digital acquisition device with an adjustable optical system having an auto focusing mechanism, a method of perfecting said auto focus mechanism of said adjustable optical system as part of an image capture process using face detection in said image capture process to achieve one or more desired image acquisition parameters, comprising:

(a) identifying a plurality of groups of pixels that correspond to an image of a face within a digitally-captured image, and determining corresponding image attributes to said group of pixels; and

(b) perfecting said auto focus by performing said auto focus on said plurality of groups of pixels that correspond to said image of said face, and

(c) wherein said performing said auto focus on said plurality of groups being done by calculating a weighted average on the individual objects of said groups, and

(d) wherein identifying of face pixels is automatically performed by an image processing apparatus which receives a relative value as to an estimated importance of detected face regions, and

(e) wherein the estimated importance of said detected face regions is based on at least one parameter including size of said faces, location of said faces within said captured image, or relative exposure of said faces, or combinations thereof.

Claim 2 (currently amended): The method of claim 1, further comprising an initial-step of initially performing said auto focus on the entire said image, capture

Claim 3 (original): The method of claim 1, the method for auto-focusing the lens and the automatic adjusting automatically adjusting one or more properties of the adjustable optical system.

Claim 4 (original): The method of claim 1, further comprising a user manually activating the camera to perform said perfecting said auto focus.

Claim 5 (currently amended): ~~The method of claim 1;~~ Within a digital acquisition device with an adjustable optical system having an auto focusing mechanism, a method of perfecting said auto focus mechanism of said adjustable optical system as part of an image capture process using face detection in said image capture process to achieve one or more desired image acquisition parameters, comprising:

(a) identifying a plurality of groups of pixels that correspond to an image of a face within a digitally-captured image, and determining corresponding image attributes to said group of pixels; and

(b) perfecting said auto focus by performing said auto focus on said plurality of groups of pixels that correspond to said image of said face, and

(c) wherein the face pixels identifying step being automatically performed by an image processing apparatus, the method further comprising manually removing one or more of said plurality of groups of pixels detected as faces.

Claim 6 (original): A method of manually removing one or more detected faces as recited in claim 5, the method being performed in response to false detection of one or more regions as one or more faces.

Claim 7 (currently amended): A method of manually removing one or more detected faces as recited in claim 5, the method being performed in response to

a determination to concentrate on less said image faces than faces identified in ~~a~~ the identifying ~~step~~.

Claim 8 (currently amended): A method of manually removing one or more detected faces as recited in claim 5, the method being performed by increasing a sensitivity level of said face identifying ~~step~~.

Claim 9 (original): A method of manually removing one or more detected faces as recited in claim 5, the method being performed by an interactive visual method.

Claim 10 (original): An interactive visual method for manually removing one or more detected faces as recited in claim 9, the method being performed using an image acquisition built-in display.

Claim 11 (canceled)

Claim 12 (currently amended): The method of claim 1, the face-pixels identifying ~~step~~ of face pixels being automatically performed by an image processing apparatus which receives a relative value as to detection assurance.

Claim 13 (original): A method of perfecting said auto focus mechanism as recited in claim 12, said calculating a weighted average being done based on said relative values as to the detection assurance.

Claim 14 (canceled)

Claim 15 (currently amended): A method of perfecting said auto focus mechanism as recited in claim 1 44, said calculating a weighted average being

done based on said relative values as to the estimated importance detection assurance.

Claim 16 (canceled)

Claim 17 (currently amended): Within a digital camera having a lens system, a method of adjusting a digitally-detected image based on detection of faces within the image to achieve a desired image parameter, comprising the steps of:

- (a) identifying a group of pixels that correspond to a face within the digitally-detected image;
- (b) determining initial values of one or more parameters of pixels of the group of pixels;
- (c) automatically adjusting values of the one or more parameters of the pixels of the group of pixels based upon a comparison of the initial parameter with the desired parameter, and  
(d) wherein the one or more parameters of pixels of the group of pixels comprising a location of the face within the digitally-detected image.

Claim 18 (original): The method of claim 17, the initial parameter and the desired parameter comprising an initial focus and a desired focus, respectively.

Claim 19 (original): The method of claim 18, the method for auto-focusing the lens, and the automatic adjusting step for automatically adjusting one or more properties of the lens system.

Claim 20 (canceled)

Claim 21 (currently amended): Within a digital camera having a lens system, a method of adjusting a digitally-detected image based on detection of faces within the image to achieve a desired image parameter, comprising the steps of:

- (a) identifying a group of pixels that correspond to a face within the digitally-detected image;
- (b) determining initial values of one or more parameters of pixels of the group of pixels;
- (c) automatically providing an option for adjusting values of the one or more parameters of the pixels of the group of pixels based upon a comparison of the initial parameter with the desired parameter, and
- (d) wherein the one or more parameters of pixels of the group of pixels comprising a location of the face within the digitally-detected image.

Claim 22 (original): The method of claim 21, the initial parameter and the desired parameter comprising an initial focus and a desired focus, respectively.

Claim 23 (currently amended): The method of claim 22, the method for auto-focusing the lens, and the automatic adjusting step for automatically adjusting one or more properties of the lens system.

Claim 24 (canceled)

Claim 25 (currently amended): Within a digital acquisition device with an adjustable optical system having an auto focusing mechanism, one or more processor readable storage devices having processor readable code embodied thereon, said processor readable code for programming one or more processors to perform a method of perfecting said auto focus mechanism of said adjustable optical system as part of an image capture process using face detection in said

image capture process to achieve one or more desired image acquisition parameters, the method comprising:

(a) identifying a plurality of groups of pixels that correspond to an image of a face within a digitally-captured image, and determining corresponding image attributes to said group of pixels; and

(b) perfecting said auto focus by performing said auto focus on said plurality of groups of pixels that correspond to said image of said face, and

(c) wherein said performing said auto focus on said plurality of groups being done by calculating a weighted average on the individual objects of said groups, and

(d) wherein the face pixels identifying step being automatically performed by an image processing apparatus which receives a relative value as to an estimated importance of said detected regions, and

(e) wherein the estimated importance of said detected regions of faces comprising at least one parameter including size of said faces, location of said faces within said captured image, or relative exposure of said faces, or combinations thereof.

Claim 26 (currently amended): The one or more storage devices of claim 25, further comprising an initial step of initially performing said auto focus on the entire said image capture.

Claim 27 (original): The one or more storage devices of claim 25, the method for auto-focusing the lens and the automatic adjusting automatically adjusting one or more properties of the adjustable optical system.

Claim 28 (original): The one or more storage devices of claim 25, further comprising a user manually activating the camera to perform said perfecting said auto focus.

Claim 29 (currently amended): The one or more storage devices of claim 25  
Within a digital acquisition device with an adjustable optical system having an  
auto focusing mechanism, one or more processor readable storage devices  
having processor readable code embodied thereon, said processor readable  
code for programming one or more processors to perform a method of perfecting  
said auto focus mechanism of said adjustable optical system as part of an image  
capture process using face detection in said image capture process to achieve  
one or more desired image acquisition parameters, the method comprising:

(a) identifying a plurality of groups of pixels that correspond to an image of  
a face within a digitally-captured image, and determining corresponding image  
attributes to said group of pixels; and

(b) perfecting said auto focus by performing said auto focus on said  
plurality of groups of pixels that correspond to said image of said face, and

(c) wherein the face pixels identifying step being automatically performed  
by an image processing apparatus, the method further comprising manually  
removing one or more of said plurality of groups of pixels detected as faces.

Claim 30 (original): The one or more storage devices of manually removing one or more detected faces as recited in claim 29, the method being performed in response to false detection of one or more regions as one or more faces.

Claim 31 (currently amended): The one or more storage devices of manually removing one or more detected faces as recited in claim 29, the method being performed in response to a determination to concentrate on less said image faces than faces identified in n the identifying step.

Claim 32 (currently amended): The one or more storage devices of manually removing one or more detected faces as recited in claim 29, the method being performed by increasing a sensitivity level of said face identifying **step**.

Claim 33 (original): The one or more storage devices of manually removing one or more detected faces as recited in claim 29, the method being performed by an interactive visual method.

Claim 34 (original): The one or more storage devices of claim 33, the interactive visual method for manually removing one or more detected faces being performed using an image acquisition built-in display.

Claim 35 (canceled)

Claim 36 (original): The one or more storage devices of claim 25, the face pixels identifying step being automatically performed by an image processing apparatus which receives a relative value as to detection assurance.

Claim 37 (original): The one or more storage devices of perfecting said auto focus mechanism as recited in claim 36, said calculating a weighted average being done based on said relative values as to the detection assurance.

Claim 38 (canceled)

Claim 39 (currently amended): The one or more storage devices of perfecting said auto focus mechanism as recited in claim 25 38, said calculating a weighted average being done based on said relative values as to the estimated importance detection-assurance.



Claim 40 (canceled)

Claim 41 (currently amended): Within a digital camera having a lens system, one or more processor readable storage devices having processor readable code embodied thereon, said processor readable code for programming one or more processors to perform a method of adjusting a digitally-detected image based on detection of faces within the image to achieve a desired image parameter, ~~comprising the steps of:~~

- (a) identifying a group of pixels that correspond to a face within the digitally-detected image;
- (b) determining initial values of one or more parameters of pixels of the group of pixels;
- (c) automatically adjusting values of the one or more parameters of the pixels of the group of pixels based upon a comparison of the initial parameter with the desired parameter, and the one or more parameters of pixels of the group of pixels comprising a location of the face within the digitally-detected image.

Claim 42 (original): The one or more storage devices of claim 41, the initial parameter and the desired parameter comprising an initial focus and a desired focus, respectively.

Claim 43 (currently amended): The one or more storage devices of claim 42, the method for auto-focusing the lens, and the automatic adjusting for step automatically adjusting one or more properties of the lens system.

Claim 44 (canceled)

Claim 45 (currently amended): Within a digital camera having a lens system, one or more processor readable storage devices having processor readable code embodied thereon, said processor readable code for programming one or more processors to perform a method of adjusting a digitally-detected image based on detection of faces within the image to achieve a desired image parameter, comprising ~~the steps of~~:

- (a) identifying a group of pixels that correspond to a face within the digitally-detected image;
- (b) determining initial values of one or more parameters of pixels of the group of pixels;
- (c) automatically providing an option for adjusting values of the one or more parameters of the pixels of the group of pixels based upon a comparison of the initial parameter with the desired parameter, and the one or more parameters of pixels of the group of pixels comprising a location of the face within the digitally-detected image.

Claim 46 (original): The one or more storage devices of claim 45, the initial parameter and the desired parameter comprising an initial focus and a desired focus, respectively.

Claim 47 (currently amended): The one or more storage devices of claim 46, the method for auto-focusing the lens, and the automatic adjusting for step automatically adjusting one or more properties of the lens system.

Claim 48 (canceled)